

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-22. (Canceled)

23. (Currently amended) A method for ~~identifying an interaction between a PDZ domain and~~ determining an interaction profile for a PDZ Ligand protein (PL protein) comprising:

(a) ~~contacting at least one~~ the PL protein to an array of at least 5 PDZ-
~~containing domain~~ polypeptides of different amino acid sequence, each located at a different predetermined site on the array; and

(b) ~~detecting binding of the at least one~~ whether the PL protein interacts with
~~to one or more of the PDZ- containing polypeptides domain polypeptide at each site of the array;~~
and

(c) determining an interaction profile for the PL protein from the interactions detected in step (b).

24. (Currently amended) The method of ~~claim 23~~ claim 23, wherein the array comprises at least 25 different PDZ-~~containing domain~~ polypeptides of different sequence, whereby an interaction profile between the PL protein and at least 25 different PDZ-domain polypeptides is determined. ~~and detecting comprises detecting binding of the at least one PL protein to a plurality of the PDZ-containing polypeptides.~~

25. (Currently amended) The method of ~~claim 23~~ claim 23, wherein the method is repeated with one or more additional PL proteins, whereby an interaction profile for each of the additional PL proteins is determined.

~~the array is contacted with a plurality of PL proteins; and~~

~~an interaction between one of the PDZ-containing polypeptides and more than one of the plurality of PL proteins is detected.~~

26-37. (Canceled)

38. (Currently amended) The method of ~~claim 23~~ claim 23, wherein the array comprises at least 40 PDZ-~~containing~~ domain polypeptides of different amino acid sequence, whereby an interaction profile between the PL protein and at least 40 different PDZ-domain polypeptides is determined. ~~and detecting comprises detecting binding of the at least one PL protein to a plurality of the PDZ-containing polypeptides.~~

39. (Currently amended) The method of ~~claim 38~~ claim 38, wherein ~~binding interactions~~ between the ~~at least one~~ PL protein ~~to one or more of~~ and the PDZ- ~~containing~~ domain polypeptides is detected by an enzyme-linked immunoabsorbent assay (ELISA).

40. (Currently amended) The method of ~~claim 23~~ claim 23, further comprising determining for each ~~complex-formed~~ interaction between ~~one of the PL proteins~~ the PL protein and one of the PDZ-~~containing~~ domain polypeptides whether there is a statistical difference between a signal representative of the ~~complex~~ interaction and a signal for a control, wherein only those ~~complexes~~ interactions in which there is a statistical difference are identified as involving an PDZ domain/PL interaction.

41. (Canceled)

42. (Currently amended) The method of ~~claim 23~~ claim 23, wherein each of the PDZ-~~containing~~ domain polypeptides are immobilized in a well of a microtiter plate.

43-50. (Canceled)